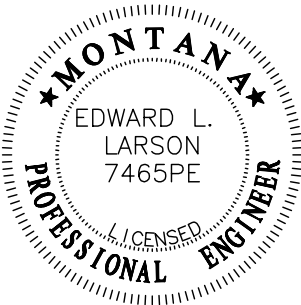


MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINE WASTE CLEAN UP BUREAU

SNOWSHOE MINE SITE
2006 ROAD IMPROVEMENT PLANS
LINCOLN COUNTY, MONTANA

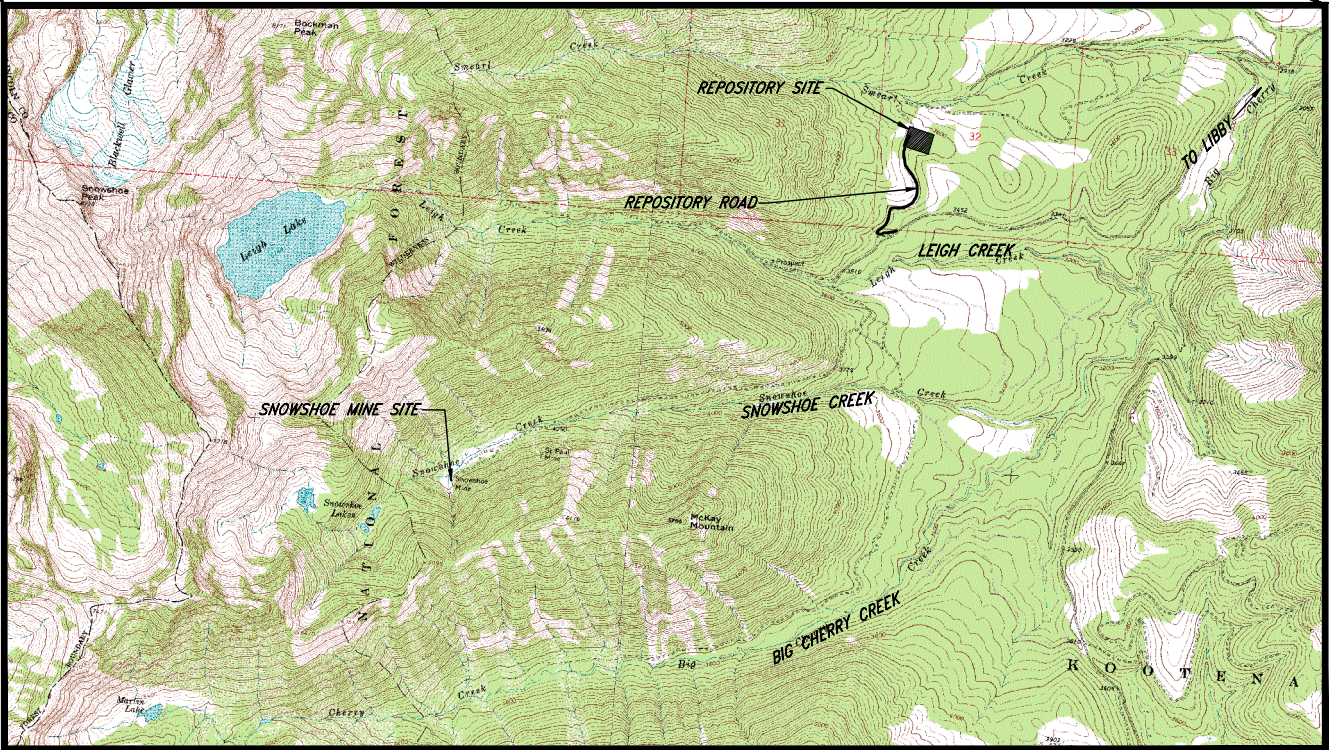
PREPARED BY
PIONEER TECHNICAL SERVICES, INC.

AUGUST 2006



SHEET INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET AND INDEX
2	LEGEND
3	SITE MAP AND PROJECT LIMITS
4	PLAN VIEW OF REPOSITORY ROAD
5	REPOSITORY ROAD TYPICAL CROSS-SECTIONS
6	REPOSITORY ROAD TYPICAL CROSS-SECTIONS
7	WATER BAR DETAILS
8	GENERAL CONSTRUCTION DETAILS

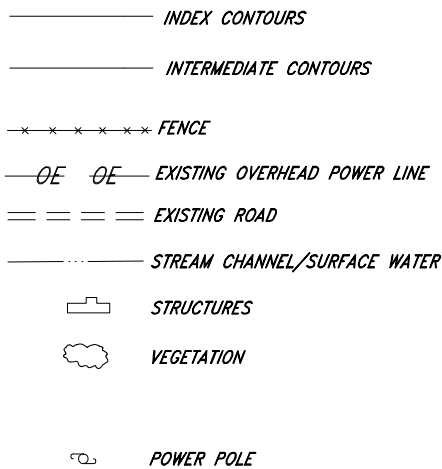


SITE VICINITY MAP

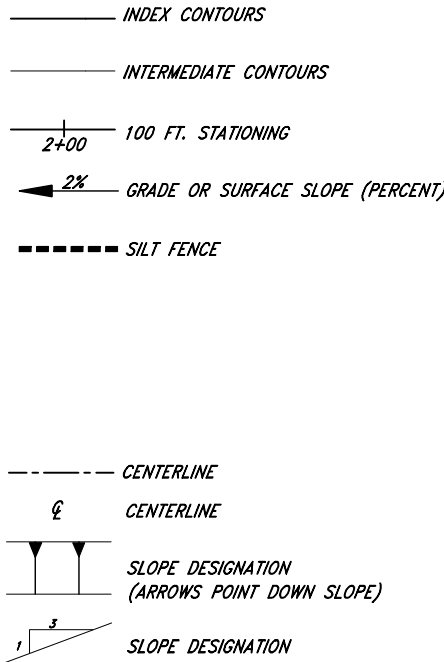
SOURCE: CABLE MOUNTAIN, LITTLE HOODOO MOUNTAIN, SNOWSHOE PEAK AND TREASURE MOUNTAIN USGS 7.5' QUAD

LEGEND

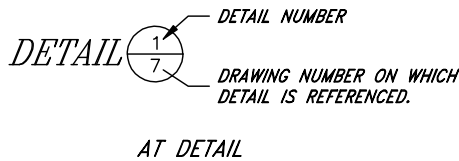
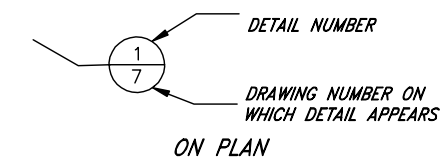
EXISTING – PLAN VIEW



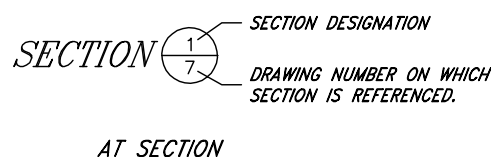
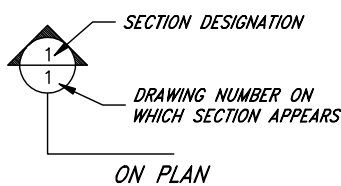
PROPOSED – PLAN VIEW



DETAIL INDICATOR



SECTION INDICATOR



NOTES:
ON PLANS: "--" SYMBOL IN UPPER HALF OF BUBBLE INDICATES GENERAL REFERENCE TO NOTED DRAWING NUMBER.
AT DETAIL/SECTIONS: "--" SYMBOL (NO DRAWING NUMBER) IN LOWER HALF OF BUBBLE INDICATES DETAIL/SECTION IS REFERENCED ON MORE THAN ONE DRAWING.

STATION SNOWSHOE MINE SITE 2006 ROAD IMPROVEMENTS 10101-2006

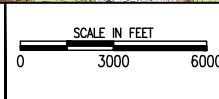
				CLA DRAWN	SDR DESIGNED	ELL CHECKED	SCALE HORIZ: NA VERT: NA	 TECHNICAL SERVICES, INC. P.O. BOX 3445 BUTTE, MT 59702	DEQ\MCB SNOWSHOE MINE SITE 2006 ROAD IMPROVEMENTS	LEGEND	SHEET 2
NO.	BY	DATE	REVISION DESCRIPTION	ELL APPROVED	8/1/06 DATE	10101 PROJECT NO.	SCALE IN FEET 0 NA NA				



SOURCE:
SNOWSHOE PEAK, CABLE MOUNTAIN, HORSE MOUNTAIN,
LIBBY, LITTLE HOODOO MOUNTAIN, SCENERY MOUNTAIN,
SWEDE MOUNTAIN, TREASURE MOUNTAIN AND VERMICULITE
MOUNTAIN, USGS 7.5' QUADS

NO.	BY	DATE	REVISION	DESCRIPTION

CLA DRAWN	SDR DESIGNED	ELL CHECKED
ELL APPROVED	8/1/06 DATE	10101 PROJECT NO.



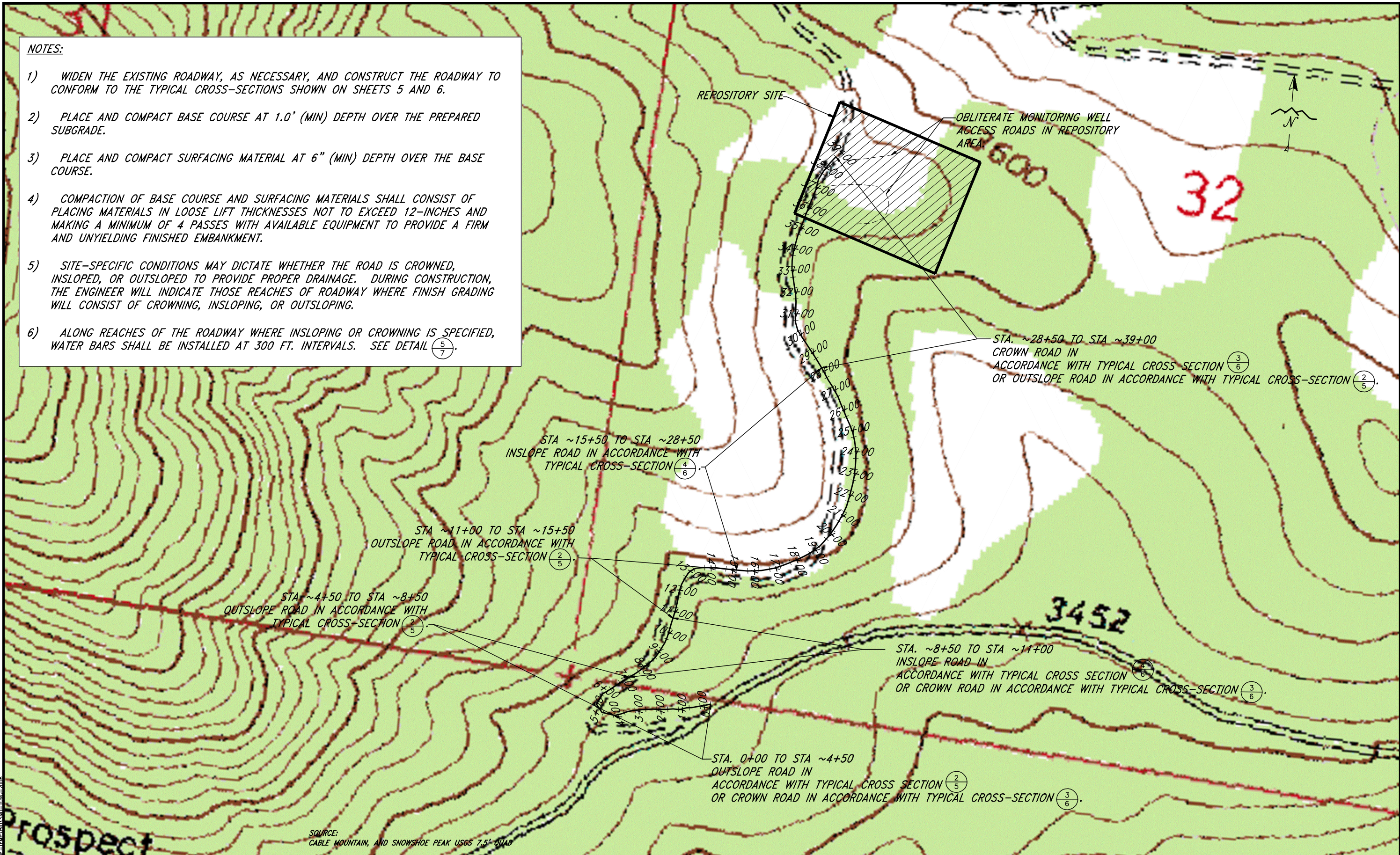
TECHNICAL SERVICES, INC.
PIONEER
P.O. BOX 3445
BUTTE, MT 59702

DEQ/MWCB
SNOWSHOE MINE SITE
2006 ROAD IMPROVEMENTS

SITE MAP
AND PROJECT LIMITS

SHEET
3

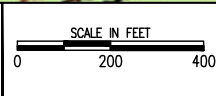
- NOTES:
- 1) WIDEN THE EXISTING ROADWAY, AS NECESSARY, AND CONSTRUCT THE ROADWAY TO CONFORM TO THE TYPICAL CROSS-SECTIONS SHOWN ON SHEETS 5 AND 6.
 - 2) PLACE AND COMPACT BASE COURSE AT 1.0' (MIN) DEPTH OVER THE PREPARED SUBGRADE.
 - 3) PLACE AND COMPACT SURFACING MATERIAL AT 6" (MIN) DEPTH OVER THE BASE COURSE.
 - 4) COMPACTION OF BASE COURSE AND SURFACING MATERIALS SHALL CONSIST OF PLACING MATERIALS IN LOOSE LIFT THICKNESSES NOT TO EXCEED 12-INCHES AND MAKING A MINIMUM OF 4 PASSES WITH AVAILABLE EQUIPMENT TO PROVIDE A FIRM AND UNYIELDING FINISHED EMBANKMENT.
 - 5) SITE-SPECIFIC CONDITIONS MAY DICTATE WHETHER THE ROAD IS CROWNED, INSLOPED, OR OUTSLOPED TO PROVIDE PROPER DRAINAGE. DURING CONSTRUCTION, THE ENGINEER WILL INDICATE THOSE REACHES OF ROADWAY WHERE FINISH GRADING WILL CONSIST OF CROWNING, INSLOPING, OR OUTSLOPING.
 - 6) ALONG REACHES OF THE ROADWAY WHERE INSLOPING OR CROWNING IS SPECIFIED, WATER BARS SHALL BE INSTALLED AT 300 FT. INTERVALS. SEE DETAIL (5/7).



STATE OF MONTANA - TEMPERLEY, INC. - 1006-2006

NO.	BY	DATE	REVISION	DESCRIPTION

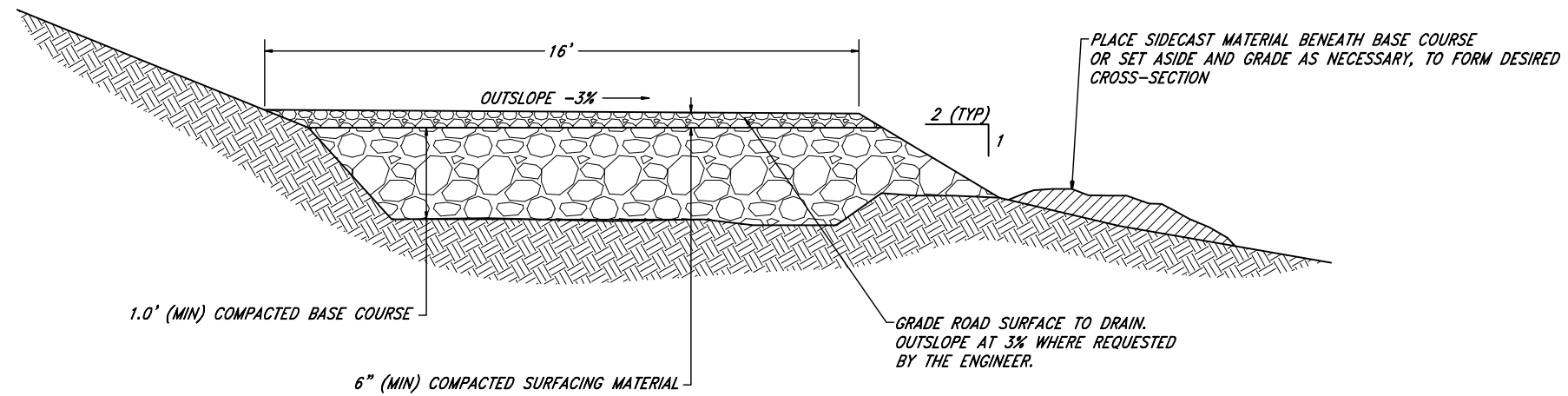
CLA DRAWN	SDR DESIGNED	ELL CHECKED
ELL APPROVED	8/1/06 DATE	10101 PROJECT NO.



TECHNICAL SERVICES, INC.
P.O. BOX 3445
BUTTE, MT 59702

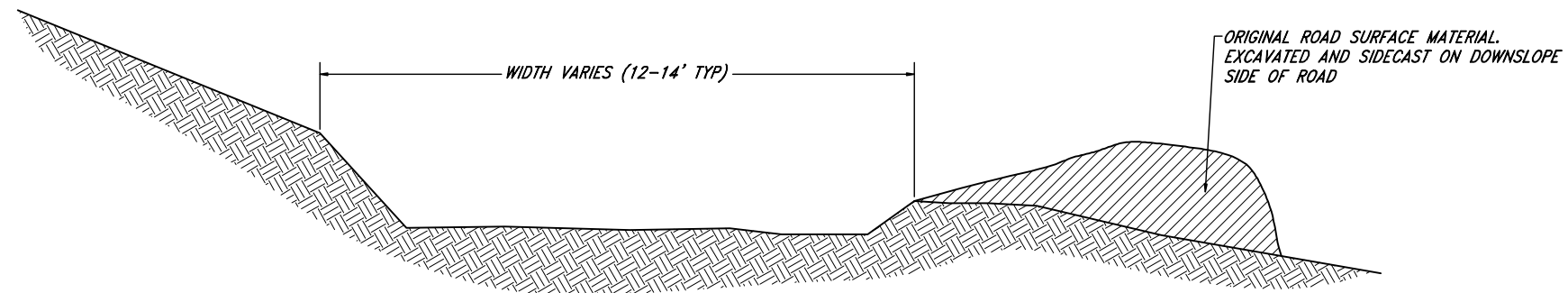
DEQ/MWCB
SNOWSHOE MINE SITE
2006 ROAD IMPROVEMENTS

PLAN VIEW OF
REPOSITORY ROAD



REPOSITORY ROAD TYPICAL OUTSLOPE CROSS-SECTION
CONDITION FOLLOWING CONSTRUCTION
(N.T.S.)

2
4

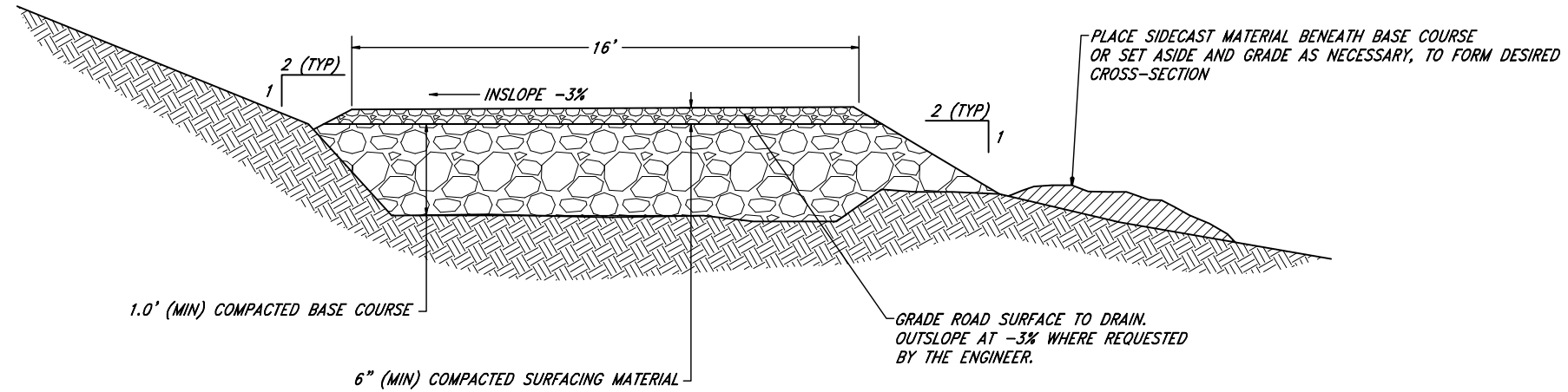


REPOSITORY ROAD CROSS-SECTION
CURRENT CONDITION
(N.T.S.)

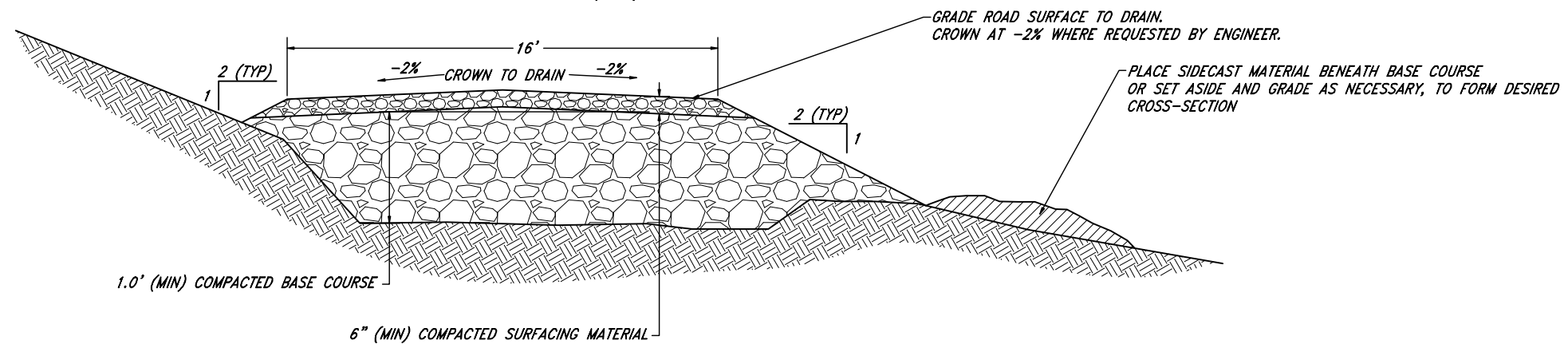
1
4

STATE OF MONTANA - SNOWSHOE MINE SITE - 104C-2006

NO.	BY	DATE	REVISION DESCRIPTION	CLA DRAWN	ELL DESIGNED	SDB CHECKED	SCALE HORIZ:	VERT:	SCALE IN FEET	0	TECHNICAL SERVICES, INC. P.O. BOX 3445 BUTTE, MT 59702	DEQ/MWCB SNOWSHOE MINE SITE 2006 ROAD IMPROVEMENTS	REPOSITORY ROAD TYPICAL CROSS-SECTIONS	SHEET 5
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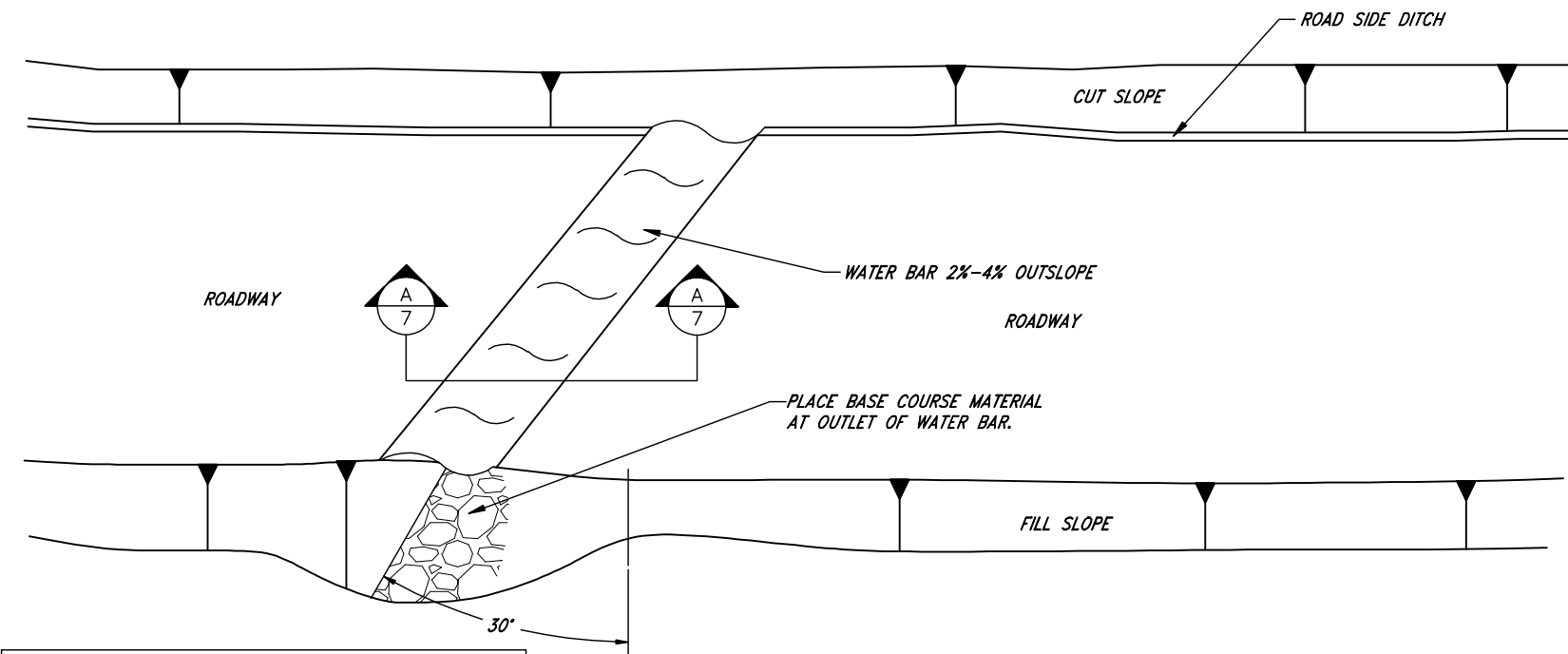
REPOSITORY ROAD TYPICAL INSLOPE CROSS-SECTION
CONDITION FOLLOWING CONSTRUCTION
(N.T.S.)



REPOSITORY ROAD TYPICAL CROWNED CROSS-SECTION
CONDITION FOLLOWING CONSTRUCTION
(N.T.S.)

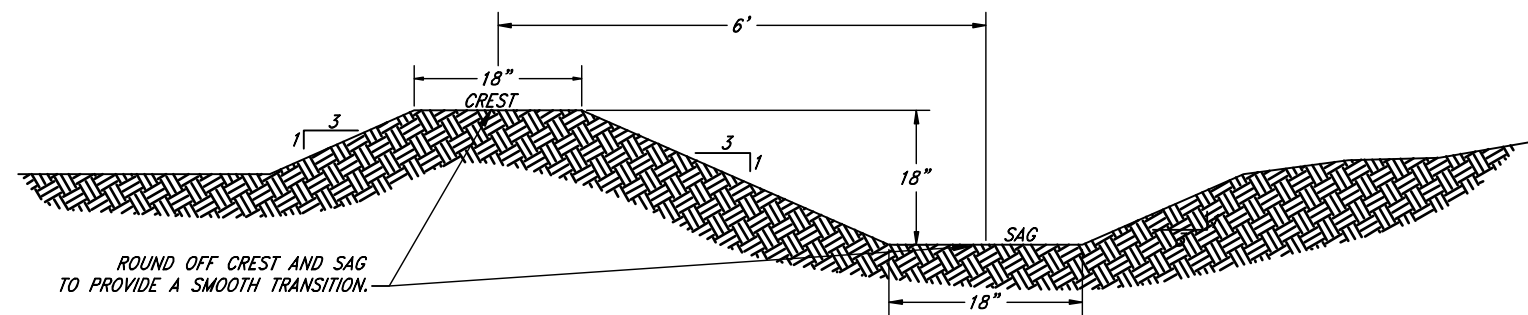
STATE OF MONTANA - SNOWSHOE MINE SITE - 1100-2006

NO.	BY	DATE	REVISION DESCRIPTION	CLA DRAWN	ELL DESIGNED	SDB CHECKED	SCALE HORIZ:	VERT:	SCALE IN FEET	0	TECHNICAL SERVICES, INC. P.O. BOX 3445 BUTTE, MT 59702	DEQ/MWCB SNOWSHOE MINE SITE 2006 ROAD IMPROVEMENTS	REPOSITORY ROAD TYPICAL CROSS-SECTIONS	SHEET 6
				ELL APPROVED	8/1/06 DATE	10101 PROJECT NO.								



NOTE:
ALONG INSLOPED AND CROWNED REACHES OF THE ROADWAY,
INSTALL WATER BARS AT 200' INTERVALS.

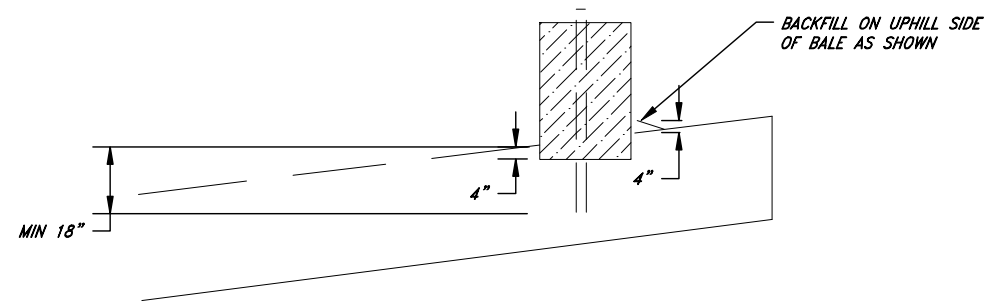
WATER BAR INSTALLATION DETAIL (5)
N.T.S.



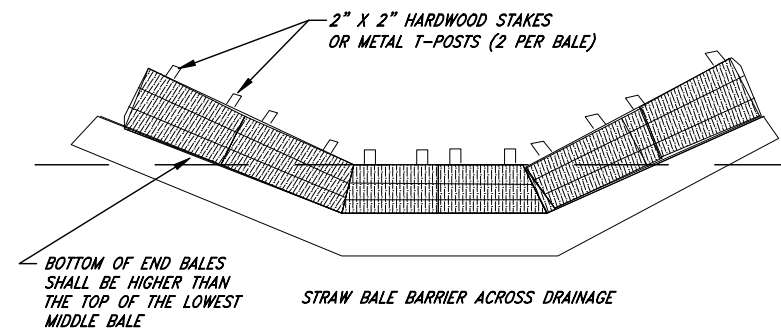
WATER BAR CROSS-SECTION A-A
N.T.S.

STATE OF MONTANA - TEMPERLEY, SNOWSHOE-111C-2006

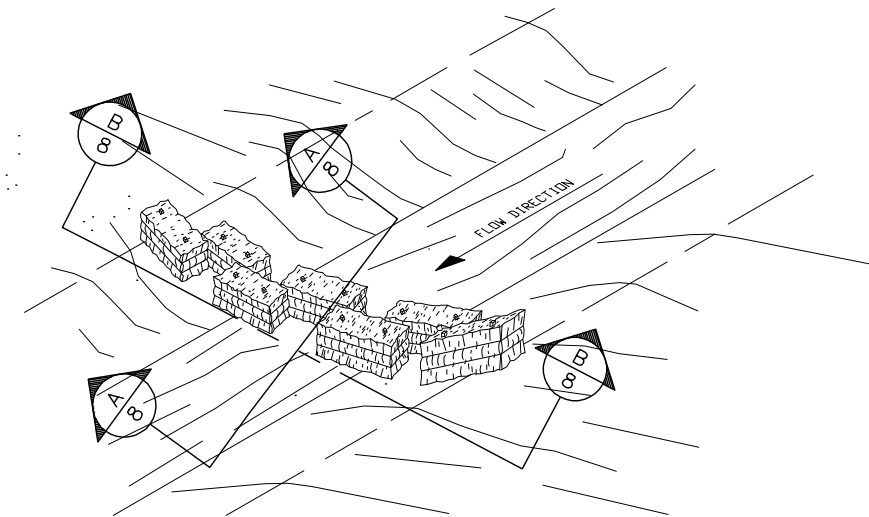
NO.	BY	DATE	REVISION	DESCRIPTION	CLA DRAWN	SDR DESIGNED	ELL CHECKED	SCALE HORIZ: VERT:	TECHNICAL SERVICES, INC. P.O. BOX 3445 BUTTE, MT 59702	DEQ\MWCB SNOWSHOE MINE SITE 2006 ROAD IMPROVEMENTS	WATER BAR DETAILS	SHEET 7
					ELL APPROVED	8/1/06 DATE	10101 PROJECT NO.	0				



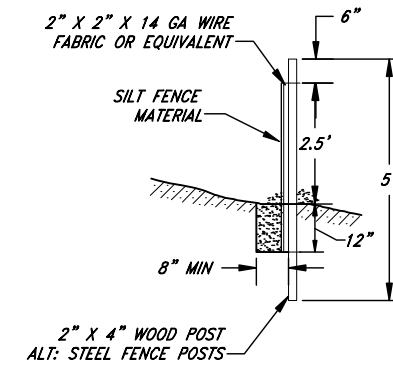
SECTION A/8



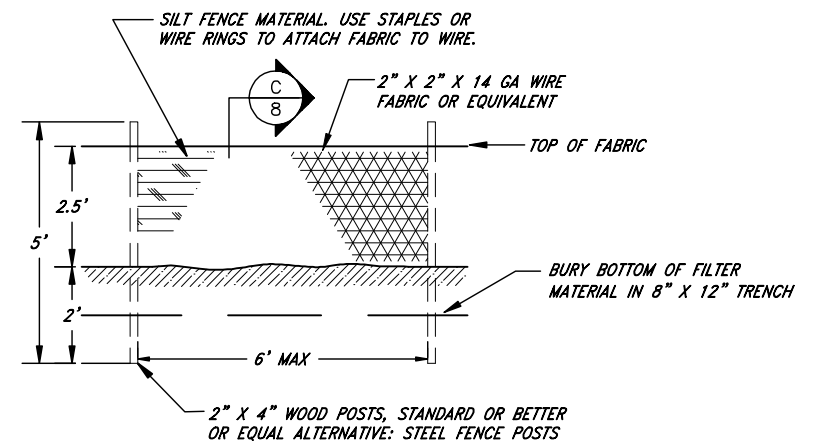
SECTION B/8



STRAW BALE INSTALLATION DETAIL 1 N.T.S.



SILT FENCE SECTION C/8
(CROSS SECTION)
1/2"=1'



SILT FENCE DETAIL C/8
(FRONT CROSS SECTION)
1/2"=1'